This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (currently amended): A magnetic head for a hard disk drive, comprising:
- 2 a write head portion, including:
- 3 a first magnetic pole;
- 4 a second magnetic pole having a relatively large yoke portion and a narrow pole
- 5 tip;
- an induction coil being disposed in part between said first magnetic pole and said
- 7 second magnetic pole;
- 8 a pole tip heating element being disposed proximate said pole tip for providing
- 9 heat energy thereto, and wherein said heating element is electrically connected in series
- with said induction coil.
- 1 2. (cancelled)
- 1 3. (currently amended): A magnetic head as described in claim 2 1 wherein said
- 2 heating element is electrically connected in series with said induction coil, such that all
- 3 electrical current that passes through said heating element also passes through said
- 4 induction coil, and all electrical current that passes through said induction coil also passes
- 5 through said heating element.
- 1 4. (currently amended): A magnetic head as described in claim 3 1 wherein said
- 2 heating element includes a first electrical lead, a relatively narrow heating portion and a
- 3 second electrical lead, and wherein said first electrical lead is electrically connected with
- 4 an electrical interconnect contact pad of said induction coil.

- 1 5. (original): A magnetic head as described in claim 4 wherein said heater portion of
- 2 said heating element is comprised of a thin film material, and said electrical leads are
- 3 comprised of one or more layers of electrically conductive material.
- 1 6. (original): A magnetic head as described in claim 1 wherein a write gap layer is
- 2 disposed between said first magnetic pole and said second magnetic pole tip, and wherein
- 3 said heating element is disposed on a side of said pole tip that is away from said write gap
- 4 layer, such that said pole tip is disposed between said write gap layer and said heating
- 5 element.
- 1 7. (cancelled)
- 1 8. (cancelled)
- 9. (original): A magnetic head as described in claim 1 wherein said heating element
- 2 has an electrical resistance of approximately .2 to 1.0 ohms.
- 1 10. (original): A magnetic head as described in claim 1 wherein the heating energy of
- 2 the heating element is approximately .3 to 1.6 mW.
- 1 11. (original): A magnetic head as described in claim 1 wherein said heating element
- 2 includes at least two legs, wherein a first said leg provides heat energy to said pole tip
- 3 and a second leg provides an alternative electrical path for electrical current passing
- 4 through said heating element.
- 1 12. (original): A magnetic head as described in claim 1, wherein a write gap layer is
- 2 disposed between said first magnetic pole and said second magnetic pole yoke, and
- 3 wherein said heating element is disposed between said write gap layer and said yoke.

- 1 13. (original): A magnetic head as described in claim 2 wherein said heating element
- 2 is comprised of a material selected from the group consisting of Cu, W, NiFe, NiCr and
- 3 IrRh.
- 1 14. (currently amended): A hard disk drive including a magnetic head, comprising:
- 2 at least one magnetic media disk;
- at least one actuating arm for holding the magnetic head;
- 4 wherein the magnetic head includes:
- 5 a write head portion, including:
- 6 a first magnetic pole;
- 7 a second magnetic pole having a relatively large yoke portion and a narrow pole
- 8 tip;
- an induction coil being disposed in part between said first magnetic pole and said
- 10 second magnetic pole;
- a pole tip heating element being disposed proximate said pole tip for providing
- heat energy thereto, and wherein said heating element is electrically connected in series
- 13 with said induction coil.
- 1 15. (cancelled)
- 1 16. (currently amended): A hard disk drive including a magnetic head as described in
- 2 claim 15 14 wherein said heating element includes a first electrical lead, a relatively
- 3 narrow heating portion and a second electrical lead, and wherein said first electrical lead
- 4 is electrically connected with an electrical interconnect contact pad of said induction coil.
- 1 17. (original): A hard disk drive including a magnetic head as described in claim 14
- 2 wherein a write gap layer is disposed between said first magnetic pole and said second
- 3 magnetic pole tip, and wherein said heating element is disposed on a side of said pole tip

- 4 that is away from said write gap layer, such that said pole tip is disposed between said
- 5 write gap layer and said heating element.
- 1 18. (original): A hard disk drive including a magnetic head as described in claim 17
- 2 wherein said write head portion further includes an induction coil being disposed in part
- 3 between said first magnetic pole and said second magnetic pole and wherein said heating
- 4 element is electrically connected with said induction coil.
- 1 19. (original): A hard disk drive including a magnetic head as described in claim 14
- wherein said heating element has an electrical resistance of approximately .2 to 1.0 ohms.
- 1 20. (original): A hard disk drive including a magnetic head as described in claim 14
- wherein the heating energy of the heating element is approximately .3 to 1.6 mW.